

ABSTRACT OF THE DISCLOSURE

A crystallization apparatus includes an illumination system which illuminates a phase shifter having a phase shift portion, and irradiates
5 a polycrystal semiconductor film or an amorphous semiconductor film with a light beam having a predetermined light intensity distribution in which a light intensity is minimum in a point area corresponding to the phase shift portion of the phase shifter, thereby
10 forming a crystallized semiconductor film, the phase shifter has four or more even-numbered phase shift lines which intersect at a point constituting the phase shift portion. An area on one side and an area on the other side of each phase shift line have a phase
15 difference of approximately 180 degrees.